

defined by the internal wall of the first cylinder (40) and the external wall of the second cylinder (42);

- said catalytic bed (44) filling the upper part of the first cylinder (40) and/or that of the
5 second cylinder (42);

- said second inert porous material (45) filling the lower part of the second cylinder (42).

8. Process according to Claim 7, characterized in that the preheating of said porous medium is carried
10 out using electrical elements situated at the periphery of the reactor.

9. Process according to Claim 7, characterized in that the preheating of said porous medium is carried out by circulating therein, prior to said introduction
15 of the reaction mixture, a preheating gas mixture comprising a hydrocarbon and oxygen in proportions which make possible total combustion.

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